



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1942.0030000APPLICATION NO.
09/664,500APPLICANT
Bates et al.FILING DATE
September 18, 2000GROUP
2662

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
RS	AA1	4,274,139	06/1981	Hodgkinson et al.	364	200	
	AB1	4,404,647	09/1983	Jones et al.	364	900	
	AC1	4,611,298	09/1986	Schuldt	364	900	
	AD1	4,654,819	03/1987	Stiffler et al.	364	900	
	AE1	4,688,221	08/1987	Nakamura et al.	371	13	
	AF1	4,701,915	10/1987	Kitamura et al.	371	13	
	AG1	4,942,579	07/1990	Goodlander et al.	371	51	
	AH1	4,996,687	02/1991	Hess et al.	371	10.1	
	AI1	5,051,887	09/1991	Berger et al.	364	200	
	AJ1	5,129,088	07/1992	Auslander et al.	395	700	
	AK1	5,136,523	08/1992	Landers	395	54	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
RS	AL1	WO 92/18931	10/1992	PCT	G06F	11/20	Yes No
RS	AM1	0 767 427 A2	04/1997	EP	G06F	9/46	Yes No
	AN1						Yes No
	AO1						Yes No
	AP1						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

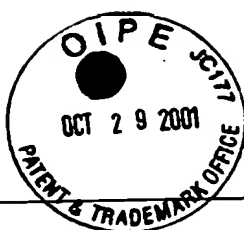
RS	AR	1	Symmetrix 3000 and 5000 Enterprise Storage Systems Product Description Guide, EMC Corporation, downloaded in September 2000, from http://www.emc.com/products/product_pdfs/pdg/symm_3_5_pdg.pdf , pp. 1-32
RS	AS	1	Robertson, Bruce, "New Products Make Replication Easier: An Analysis," Network Computing, The Gale Group, September 1993, p. 99.
RS	AT	1	Lawrence, Andrew, "Remote Disks: The evolution of remote disk support over public lines means that disks can now be located thousands of kilometers away from the central processor," The Gale Group, IBM System User, Vol. 14, No. 2, February 1993, p. 14.

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
PL	AA2	5,138,710	08/1992	Kruesi et al.	395	575	
	AB2	5,155,845	10/1992	Beal et al.	395	575	
	AC2	5,157,663	10/1992	Major et al.	371	9.1	
	AD2	5,167,011	11/1992	Priest	395	54	
	AE2	5,175,849	12/1992	Schneider	395	600	
	AF2	5,185,884	02/1993	Martin et al.	395	575	
	AG2	5,206,939	04/1993	Yanai et al.	395	400	
	AH2	5,212,784	05/1993	Sparks	395	575	
	AI2	5,212,789	05/1993	Rago	395	600	
	AJ2	5,235,601	08/1993	Stallmo et al.	371	40.1	
	AK2	5,257,367	10/1993	Goodlander et al.	395	600	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL2						Yes No
	AM2						Yes No
	AN2						Yes No
	A02						Yes No
	AP2						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PL	AR	2	Bobrowski, Steve, "Protecting your data: Overview and Comparison of Backup and Recovery Features in Database Servers," The Gale Group, DBMS, Vol. 6, No. 8, July, 1993, p. 55.
PL	AS	2	Patent Abstracts of Japan, Patent No. JP63010286, published January 16, 1988.
PL	AT	2	Copy of International Search Report issued August 27, 2001 for PCT/US00/32493, 8 pages.

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<i>RL</i>	AA3	5,263,154	11/1993	Eastridge <i>et al.</i>	395	575	
	AB3	5,276,867	01/1994	Kenley <i>et al.</i>	395	600	
	AC3	5,278,838	01/1994	Ng <i>et al.</i>	371	10.1	
	AD3	5,317,731	05/1994	Dias <i>et al.</i>	395	600	
	AE3	5,325,505	06/1994	Hoffecker <i>et al.</i>	395	425	
	AF3	5,347,653	09/1994	Flynn <i>et al.</i>	395	600	
	AG3	5,357,509	10/1994	Ohizumi	371	10.1	
	AH3	5,367,682	11/1994	Chang	395	700	
	AI3	5,375,232	12/1994	Legvold <i>et al.</i>	395	575	
	AJ3	5,390,313	02/1995	Yanai <i>et al.</i>	395	425	
	AK3	5,404,361	04/1995	Casorso <i>et al.</i>	371	40.1	

FOREIGN PATENT DOCUMENTS

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	AL3						Yes No
	AM3						Yes No
	AN3						Yes No
	AO3						Yes No
	AP3						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>RL</i>	AR	3	Vekiarides, Nicos, "Fault-Tolerant Disk Storage and File Systems Using Reflective Memory," IEEE, Proceedings of the 28 th Annual Hawaii International Conference on System Sciences, 1995, pp. 103-113.
<i>RL</i>	AS	3	Vekiarides, Nicos, "Implementation of a Fault-Tolerant Disk Storage System Using Reflective Memory," date and publisher unknown, pp. 1-28.
<i>RL</i>	AT	3	"Program for Exporting Transmission Control Protocol-Based Services through Firewalls," IBM Corp., IBM® Technical Disclosure Bulletin, Vol. 40, No. 12, December 1997, pp. 161-162.

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
RL	AA4	5,430,866	07/1995	Lawrence <i>et al.</i>	395	575	
	AB4	5,430,885	07/1995	Kaneko <i>et al.</i>	395	800	
	AC4	5,432,922	07/1995	Polyzois <i>et al.</i>	395	425	
	AD4	5,435,004	07/1995	Cox <i>et al.</i>	395	575	
	AE4	5,452,420	09/1995	Engdahl <i>et al.</i>	395	285	
	AF4	5,479,615	12/1995	Ishii <i>et al.</i>	395	250	
	AG4	5,481,701	01/1996	Chambers, IV	395	600	
	AH4	5,495,601	02/1996	Narang <i>et al.</i>	395	600	
	AI4	5,497,483	03/1996	Beardsley <i>et al.</i>	395	575	
	AJ4	5,504,882	04/1996	Chai <i>et al.</i>	395	182.03	
	AK4	5,519,844	05/1996	Stallmo	395	441	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL4						Yes No
	AM4						Yes No
	AN4						Yes No
	AO4						Yes No
	AP4						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RL	AR	4	"Product Brief- May 2000: StorageApps' SAN Appliance," The Enterprise Storage Group, 2000, pp. 1-3.
RL	AS	4	"Enterprise Storage Report: Technical Review," Enterprise Storage Group, www.enterprisestoragegroup.com , Vol. 6, date unknown, 5 pages.
RL	AT	4	Christensen, Brenda, "Building a Storage-Area Network: SANs Boost Performance, Reliability, and Scalability of the Critical Link Between Servers and Storage Devices," Data Communications, April 21, 1998, pp. 67-71.

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
PS	AA5	5,522,046	05/1996	McMillen et al.	395	200.15	
	AB5	5,528,759	06/1996	Moore	395	200.11	
	AC5	5,530,845	06/1996	Hiatt et al.	395	500	
	AD5	5,537,533	07/1996	Staheli et al.	395	182.03	
	AE5	5,544,347	08/1996	Yanai et al.	395	489	
	AF5	5,546,535	08/1996	Stallmo et al.	395	182.07	
	AG5	5,546,556	08/1996	Matsushita	395	427	
	AH5	5,561,815	10/1996	Takata et al.	395	833	
	AI5	5,566,316	10/1996	Fechner et al.	395	441	
	AJ5	5,568,628	10/1996	Satoh et al.	395	440	
	AK5	5,568,629	10/1996	Gentry et al.	395	441	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL5						Yes No
	AM5						Yes No
	AN5						Yes No
	AO5						Yes No
	AP5						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PS	AR	5	Jander, Mary, "Launching a Storage-Area Net: High-Speed Storage-Area Networks Help Net Managers Hurl Stored Data Around Quickly- and Take the Load off the LAN and WAN," Data Communications, March 21, 1998, pp. 64-72.
PS	AS	5	Press Release, "HP's High-Speed I/O Business Unit, Hewlett Packard, August 1997, 3 pages.
PS	AT	5	Press Release, "HP's TACHYON Fibre Channel Controller Chosen by Compaq: Industry-Leading IC to Enable Next-Generation Storage Solutions," Hewlett Packard, August 6, 1997, 2 pages.

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RA	AA6	5,583,994	12/1996	Rangan	395	200.09	
	AB6	5,596,736	01/1997	Kerns	395	404	
	AC6	5,611,069	03/1997	Matoba	395	441	
	AD6	5,619,694	04/1997	Shimazu	395	615	
	AE6	5,625,818	04/1997	Zarmer <i>et al.</i>	395	615	
	AF6	5,659,787	08/1997	Schieltz	395	200.56	
	AG6	5,664,144	09/1997	Yanai <i>et al.</i>	711	113	
	AH6	5,671,439	09/1997	Klein <i>et al.</i>	395	821	
	AI6	5,673,322	09/1997	Pepe <i>et al.</i>	380	49	
	AJ6	5,673,382	09/1997	Cannon <i>et al.</i>	395	182.04	
	AK6	5,680,580	10/1997	Beardsley <i>et al.</i>	395	489	

FOREIGN PATENT DOCUMENTS

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	AL6						Yes No
	AM6						Yes No
	AN6						Yes No
	AO6						Yes No
	AP6						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

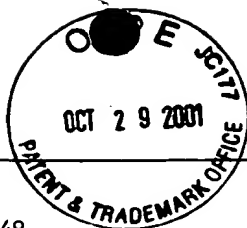
RA	AR	6	Press Release, "HP's TACHYON Family of Fibre Channel Protocol Controllers to be Part of Compaq's Next-Generation Storage Solutions," Hewlett Packard, December 7, 1998, 2 pages.
RA	AS	6	Mace, Scott, "Serving Up Storage," The McGraw-Hill Companies, Inc., BYTE, Vol. 23, No. 1, January 1998, pg. 72.
RA	AT	6	Kennedy, Carla, "Fibre Channel Speeds the Convergence of Network and Storage," Storage Management Solutions, November 1997, pp. 28-31.

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
PL	AA7	5,684,945	11/1997	Chen <i>et al.</i>	395	182.18	
	AB7	5,692,155	11/1997	Iskiyan <i>et al.</i>	395	489	
	AC7	5,710,885	01/1998	Bondi	395	200.54	
	AD7	5,710,918	01/1998	Lagarde <i>et al.</i>	395	610	
	AE7	5,715,393	02/1998	Naugle	395	200.11	
	AF7	5,719,942	02/1998	Aldred <i>et al.</i>	380	49	
	AG7	5,720,027	02/1998	Sarkozy <i>et al.</i>	395	182.04	
	AH7	5,732,238	03/1998	Sarkozy	395	440	
	AI7	5,737,743	04/1998	Ooe <i>et al.</i>	711	112	
	AJ7	5,740,397	04/1998	Levy	395	441	
	AK7	5,742,792	04/1998	Yanai <i>et al.</i>	395	489	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL7						Yes No
	AM7						Yes No
	AN7						Yes No
	A07						Yes No
	AP7						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PL	AR	Z	Fleming, Vincent, "Raid in Clusters," Storage Management Solutions, March 1998, pp. 51-53.
PL	AS	Z	Smith, Brian R., "How Will Migrating To Fibre Channel Occur?" Computer Technology Review, date unknown, pp. 92, 94, 95.
PL	AT	Z	Snively, Robert, "SCSI applications on Fibre Channel," High-Speed Fiber Networks and channels II, The Society of Photo-Optical Instrumentation Engineers, Proceedings SPIE- The International Society for Optical Engineering, September 8-9, 1992, Vol. 1784, pp. 104-113.

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PS	AA8	5,745,789	04/1998	Kakuta	395	841	
	AB8	5,748,897	05/1998	Katiyar	395	200.49	
	AC8	5,761,410	06/1998	Martin <i>et al.</i>	395	183.18	
	AD8	5,761,507	06/1998	Govett	395	684	
	AE8	5,764,913	06/1998	Jancke <i>et al.</i>	395	200.54	
	AF8	5,765,186	06/1998	Searby	711	100	
	AG8	5,765,204	06/1998	Bakke <i>et al.</i>	711	202	
	AH8	5,768,623	06/1998	Judd <i>et al.</i>	395	857	
	AI8	5,771,367	06/1998	Beardsley <i>et al.</i>	395	489	
	AJ8	5,774,655	06/1998	Bloem <i>et al.</i>	395	200.5	
	AK8	5,774,680	06/1998	Wanner <i>et al.</i>	395	290	

FOREIGN PATENT DOCUMENTS

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	AM8						Yes No
	AN8						Yes No
	AO8						Yes No
	AP8						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PS	AR	8	Copy of International Search Report issued October 9, 2001 for PCT/US00/42337, 7 pages.
PS	AS	8	Bannister, Dick, "Compaq Storage Resource Manager," Evaluator Group Inc., Storage News, Vol. 2, Issue 4, April 2000.
	AT	8	

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Rf	AA9	5,784,703	07/1998	Muraoka et al.	711	173	
	AB9	5,787,304	07/1998	Hodges et al.	395	821	
	AC9	5,787,459	07/1998	Stallmo et al.	711	112	
	AD9	5,787,470	07/1998	DeSimone et al.	711	124	
	AE9	5,787,485	07/1998	Fitzgerald, V et al.	711	162	
	AF9	5,790,774	08/1998	Sarkozy	395	182.04	
	AG9	5,805,919	09/1998	Anderson	395	821	
	AH9	5,809,328	09/1998	Noagles et al.	395	825	
	AI9	5,809,332	09/1998	Vishlitzky et al.	395	835	
	AJ9	5,812,754	09/1998	Lui et al.	395	182.04	
	AK9	5,812,784	09/1998	Watson et al.	395	200.57	

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	AN9						Yes No
	AO9						Yes No
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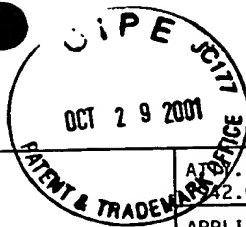
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RA	AA10	5,819,020	10/1998	Beeler, Jr.	395	182.03	
	AB10	5,828,475	10/1998	Bennett <i>et al.</i>	359	139	
	AC10	5,828,820	10/1998	Onishi <i>et al.</i>	395	182.04	
	AD10	5,832,088	11/1998	Nakajima <i>et al.</i>	380	22	
	AE10	5,835,718	11/1998	Blewett	395	200.48	
	AF10	5,835,764	11/1998	Platt <i>et al.</i>	395	671	
	AG10	5,842,224	11/1998	Fenner	711	202	
	AH10	5,848,251	12/1998	Lomelino <i>et al.</i>	395	309	
	AI10	5,850,522	12/1998	Wlaschin	395	200.45	
	AJ10	5,852,715	12/1998	Raz <i>et al.</i>	395	200.31	
	AK10	5,857,208	01/1999	Ofek	707	204	

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	AM10						Yes No
	AN10						Yes No
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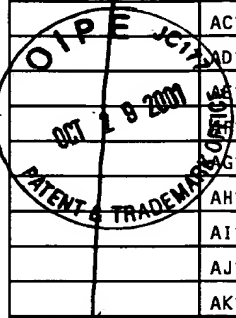
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				APPLICANT Bates <i>et al.</i>		RECEIVED OCT 30 2001 Technology Center 2000	
				FILING DATE September 18, 2000		GROUP 2662	

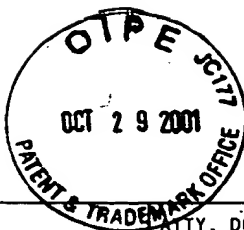
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA11	5,857,213	01/1999	Benhase <i>et al.</i>	711	112	
	AB11	5,873,125	02/1999	Kawamoto	711	202	
	AC11	5,889,935	03/1999	Ofek <i>et al.</i>	395	182.04	
	AD11	5,893,919	04/1999	Sarkozy <i>et al.</i>	711	114	
	AE11	5,894,554	04/1999	Lowery <i>et al.</i>	395	200.33	
	AF11	5,897,661	04/1999	Baranovsky <i>et al.</i>	711	170	
	AG11	5,901,280	05/1999	Mizuno <i>et al.</i>	395	182.04	
	AH11	5,901,327	05/1999	Ofek	395	825	
	AI11	5,909,692	06/1999	Yanai <i>et al.</i>	711	4	
	AJ11	5,911,150	06/1999	Peterson <i>et al.</i>	711	162	
	AK11	5,911,779	06/1999	Stallmo <i>et al.</i>	714	6	

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL11						Yes No
	AM11						Yes No
	AN11						Yes No
	AO11						Yes No
	AP11						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)		
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2662

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
pl	AA12	5,912,897	06/1999	Steinbach	370	467	
	AB12	5,926,833	07/1999	Rasoulia et al.	711	147	
	AC12	5,933,614	08/1999	Tavallaei et al.	395	309	
	AD12	5,933,653	08/1999	Ofek	395	826	
	AE12	5,940,865	08/1999	Ohzora et al.	711	167	
	AF12	5,941,972	08/1999	Hoese et al.	710	129	
	AG12	5,948,108	09/1999	Lu et al.	714	4	
	AH12	5,956,750	09/1999	Yamamoto et al.	711	167	
	AI12	5,959,994	09/1999	Boggs et al.	370	399	
	AJ12	5,960,216	09/1999	Vishlitzky et al.	395	894	
	AK12	5,961,593	10/1999	Gabber et al.	709	219	

FOREIGN PATENT DOCUMENTS

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	AP12						Yes No

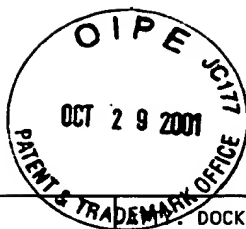
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
RL	AA13	5,969,841	10/1999	McGinley <i>et al.</i>	359	163	
	AB13	5,974,566	10/1999	Ault <i>et al.</i>	714	15	
	AC13	5,978,890	11/1999	Ozawa <i>et al.</i>	711	163	
	AD13	5,983,316	11/1999	Norwood	711	112	
	AE13	5,987,627	11/1999	Rawlings, III	714	48	
	AF13	6,003,030	12/1999	Kenner <i>et al.</i>	707	10	
	AG13	6,003,065	12/1999	Yan <i>et al.</i>	709	201	
	AH13	6,006,017	12/1999	Joshi <i>et al.</i>	395	200.11	
	AI13	6,009,478	12/1999	Panner <i>et al.</i>	710	5	
	AJ13	6,012,120	01/2000	Duncan <i>et al.</i>	710	129	
	AK13	6,014,676	01/2000	McClain	707	204	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AN13						Yes No
	AO13						Yes No
	AP13						Yes No

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA14	6,014,731	01/2000	Totsuka et al.	711	202	
	AB14	6,021,436	02/2000	Garrett	709	224	
	AC14	6,029,000	02/2000	Woolsey et al.	395	705	
	AD14	6,038,379	03/2000	Fletcher et al.	395	200.6	
	AE14	6,038,630	03/2000	Foster et al.	710	132	
	AF14	6,041,381	03/2000	Hoese	710	129	
	AG14	6,044,081	03/2000	Bell et al.	370	401	
	AH14	6,047,350	04/2000	Dutton et al.	710	129	
	AI14	6,049,819	04/2000	Buckle et al.	709	202	
	AJ14	6,049,828	04/2000	Dev et al.	709	224	
	AK14	6,052,727	04/2000	Kamalanathan	709	224	

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	AM14						Yes No
	AN14						Yes No
	AO14						Yes No
	AP14						Yes No

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U.S. PATENT DOCUMENTS

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
ABD	AA15	6,052,736	04/2000	Ogle <i>et al.</i>	709	244	
	AB15	6,052,759	04/2000	Stallmo <i>et al.</i>	711	114	
	AC15	6,052,797	04/2000	Ofek <i>et al.</i>	714	6	
	AD15	6,055,602	04/2000	McIlvain <i>et al.</i>	711	112	
	AE15	6,057,863	05/2000	Olarig	345	520	
	AF15	6,061,356	05/2000	Terry	370	401	
	AG15	6,061,687	05/2000	Wooten	707	101	
	AH15	6,063,128	05/2000	Bentley <i>et al.</i>	703	6	
	AI15	6,065,085	05/2000	Odenwald, Jr. <i>et al.</i>	710	129	
	AJ15	6,065,087	05/2000	Keaveny <i>et al.</i>	710	129	
	AK15	6,065,096	05/2000	Day <i>et al.</i>	711	114	

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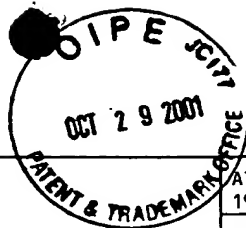
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
[Signature]	AA16	6,065,100	05/2000	Schafer et al.	711	137	
	AB16	6,066,181	05/2000	DeMaster	717	5	
	AC16	6,073,209	06/2000	Bergsten	711	114	
	AD16	6,073,222	06/2000	Ohran	711	162	
	AE16	6,081,834	06/2000	Brandt et al.	709	213	
	AF16	6,085,193	07/2000	Malkin et al.	707	10	
	AG16	6,098,128	08/2000	Velez-McCaskey et al.	710	65	
	AH16	6,098,146	08/2000	Bouvier et al.	711	100	
	AI16	6,101,497	08/2000	Ofek	707	10	
	AJ16	6,148,412	11/2000	Cannon et al.	714	6	
	AK16	5,559,958	09/1996	Farrand et al.	395	183.03	

FOREIGN PATENT DOCUMENTS

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